

## IN THE CLAIMS

Please amend the claims as follows. This listing of claims will replace all prior versions and listings of the claims in the present application.

- 1. (Original) A method for increasing urine flow in an individual in need thereof comprising administering an amount of a GLP-1 or a GLP-1 agonist effective to increase urine flow.
- 2. (Original) The method of claim 1, wherein said increase in urine flow is accompanied by an increase in sodium excretion in said individual.
- 3. (Original) The method of claim 1, wherein said increase in urine flow does not increase urinary potassium concentration in said individual.
- 4. (Original) A method of decreasing the concentration of potassium in the urine of an individual in need thereof comprising administering to said individual an amount of a GLP-1 or GLP-1 agonist effective to decrease the concentration of potassium in the urine.
- 5. (Original) A method of alleviating a condition or disorder associated with toxic hypervolemia in an individual, comprising administering to said individual a therapeutically effective amount of a GLP-1 or GLP-1 agonist.
- 6. (Original) A method of treating congestive heart failure in an individual comprising administering to said individual a therapeutically effective amount of a GLP-1 or GLP-1 agonist.
- 7. (Original) The method of claim 5, wherein said condition or disorder is hypertension or renal failure.

- 8. (Currently Amended) A method of inducing rapid diuresis in an individual in need of diuresis comprising administering to said individual an amount of a GLP-1 or GLP-1 agonist effective to induce diuresis.
- 9. (Original) A method of preparing an individual for a surgical procedure comprising administering to said individual a therapeutically effective amount of a GLP-1 or GLP-1 agonist.
- 10. (Original) The method of claim 9, wherein said surgical procedure is selected from the group consisting of ocular surgical procedures and neurosurgical procedures.
- 11. (Original) The method of claim 9, wherein said GLP-1 or GLP-1 agonist is administered to said individual before said surgical procedure.
- 12. (Original) A method of increasing renal plasma flow and glomerular filtration rate in an individual in need thereof comprising administering to said individual an amount of a GLP-1 or GLP-1 agonist effective to increase renal plasma flow and glomcrular filtration rate.
- (Original) A method of treating pre-eclampsia or eclampsia of pregnancy in an 13. individual having pre-eclampsia or eclampsia, comprising administering to said individual a therapcutically effective amount of a GLP-1 or GLP-1 agonist.
- (Withdrawn) The method according to any of claims 1, 4, 5, 6, 8, 9, 12, or 13, 14. wherein said GLP-1 or GLP-1 agonist is selected from the group consisting of GLP-1(7-34) and GLP-1(7-35), GLP-1(7-37), GLP-1(7-36), Gln<sup>9</sup> -GLP-1(7-37), D-Gln<sup>9</sup> -GLP-1(7-37), acetyl-Lvs $^9$ -GLP-1(7-37), Thr $^{16}$ -Lys $^{18}$ -GLP-1(7-37), and Lys $^{18}$ -GLP-1(7-37).
- (Withdrawn) The method according to any of claims 1, 4, 5, 6, 8, 9, 12, or 13, 15. wherein said GLP-1 agonist is:

R<sub>1</sub>-Ala-Glu-Gly-Thr-Phe-Thr-Scr-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Xaa40-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-R3 (SEQ ID NO:67)

 $R_2$ 

wherein R<sub>1</sub> is selected from the group consisting of 4-imidazopropionyl (des-amino-histidyl), 4-imidazoacetyl, or 4-imidazo-a, adimethyl-acetyl;

 $R_2$  is selected from the group consisting of  $C_6$  - $C_{10}$  unbranched acyl, or is absent;

R<sub>3</sub> is selected from the group consisting of Gly-OH or NH<sub>2</sub>; and,

Xaa40 is Lys or Arg.

- 16. (Withdrawn) The method according to any of claims 1, 4, 5, 6, 8, 9, 12, or 13, wherein said GLP-1 agonist is
- R<sub>4</sub> -Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Xaa<sub>41</sub>-Gly-Arg -R<sub>5</sub> (SEQ ID NO:68)

wherein R4 is selected from the group consisting of:

- a) H<sub>2</sub> N;
- b) H<sub>2</sub> N-Ser;
- c) H2 N-Val-Ser;
- d) H2 N-Asp-Val-Ser;
- e) H2 N-Ser-Asp-Val-Ser (SEQ ID NO:69);
- f) H<sub>2</sub> N-Thr-Ser-Asp-Val-Ser (SEQ ID NO:70);
- g) H<sub>2</sub> N-Phe-Thr-Ser-Asp-Val-Ser (SEQ ID NO:71);
- h) H<sub>2</sub> N-Thr-Phe-Thr-Ser-Asp-Val-Ser (SEQ ID NO:72);
- i) H<sub>2</sub> N-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser (SEQ ID NO:73);
- j) H<sub>2</sub> N-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser (SEQ ID NO:74); or
- k) H2 N-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser (SEQ ID NO:75);

Xaa41 is selected from the group consisting of Lys or Arg; and

wherein R<sub>5</sub> is selected from the group consisting of NH<sub>2</sub>, OH, Gly-NH<sub>2</sub>, or Gly-OH.

17. (Withdrawn) The method according to any of claims 1, 4, 5, 6, 8, 9, 12, or 13, wherein said GLP-1 agonist is

$$H-A-E-G-T-F-T-S-D-V-S-S-Y-L-E-G-Q-A-A-K-E-F$$
  
-I-A-W-L-V-K-(G)-(R)-(G) (SEQ ID NO:76)

wherein (G), (R), and (G) are present or absent depending on the indicated chain length with at least one modification of SEQ ID NO:76, selected from the group consisting of:

- (a) substitution of a neutral amino acid, arginine, or a D form of lysine for lysine at position 26 and/or 34 and/or a neutral amino acid, lysine, or a D form of arginine for arginine at position 36; (b) substitution of an oxidation-resistant amino acid for tryptophan at position 31;
- (c) substitution according to at least one of:

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Y for V at position 16;
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K for S at position 18;

D for E at position 21;

S for G at position 22;

R for O at position 23;

R for A at position 24; and

Q for K at position 26;

(d) a substitution comprising at least one of:

an alternative small neutral amino acid for A at position 8;

an alternative acidic amino acid or neutral amino acid for E at position 9;

an alternative neutral amino acid for G at position 10; and

an alternative acidic amino acid for D at position 15; and

- (e) substitution of an alternative neutral amino acid or the D or N-acylated or alkylated form of histidine for histidine at position 7.
- 18. (Withdrawn) The method according to any of claims 1, 4, 5, 6, 8, 9, 12, or 13, wherein said GLP-1 or GLP-1 agonist is administered peripherally.
- 19. (Withdrawn) The method of claim 18, wherein said peripheral administration is selected form the group consisting of buccal, nasal, pulmonary, oral, intravenous, subcutaneously intraocular, rectal, and transdermal administration.
- 20. (Original) A method for increasing cardiac contractility in an individual in need thereof comprising administering an amount of a GLP-1 or GLP-1 agonist effective to increase cardiac contractility.

- 21. (Original) A method for treating a condition or disorder that can be alleviated by increasing cardiac contractility in an individual having said condition or disorder comprising administering an amount of a GLP-1 or GLP-1 agonist effective to increase cardiac contractility.
- 22. (Original) The method according to claim 21 wherein said condition or disorder is congestive heart failure.
- 23. (Original) The method according to claim 20 or claim 21 wherein said GLP-1 or GLP-1 agonist is selected from the group consisting GLP-1(7-34) and GLP-1(7-35), GLP-1(7-37), GLP-1(7-37), GLP-1(7-37), D-Gln<sup>9</sup> -GLP-1(7-37), acetyl-Lys<sup>9</sup> -GLP-1(7-37), Thr<sup>16</sup> Lys<sup>18</sup> -GLP-1(7-37), Lys<sup>18</sup> -GLP-1(7-37),

a peptide of formula (II):

 $R_1\text{-}Ala\text{-}Glu\text{-}Gly\text{-}Thr\text{-}Phe\text{-}Thr\text{-}Ser\text{-}Asp\text{-}Val\text{-}Ser\text{-}Ser\text{-}Tyr\text{-}Leu\text{-}Glu\text{-}Gly\text{-}Gln\text{-}Ala\text{-}Ala\text{-}}Ala\text{-}Ala\text{-}Glu\text{-}Phe\text{-}Ile\text{-}Ala\text{-}Trp\text{-}Leu\text{-}Val\text{-}Lys\text{-}Gly\text{-}Arg\text{-}R}_3 \ (SEQ ID NO:67)$ 

R<sub>2</sub>

wherein  $R_1$  is selected from the group consisting of 4-imidazopropionyl (des-aminohistidyl), 4-imidazoacetyl, or 4-imidazo- $\alpha$ , adimethyl-acetyl;

R<sub>2</sub> is selected from the group consisting of C<sub>6</sub> -C<sub>10</sub> unbranched acyl, or is absent;

R<sub>3</sub> is selected from the group consisting of Gly-OH or NH<sub>2</sub>; and,

Xaa40 is Lys or Arg,

a peptide of formula (III):

R<sub>4</sub> -Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Xaa41-Gly-Arg -R<sub>5</sub> (SEQ ID NO:68)

wherein R4 is selected from the group consisting of:

- a) H<sub>2</sub> N;
- b) H2 N-Ser;
- c) H2 N-Val-Ser;
- d) H2 N-Asp-Val-Ser;
- e) H2 N-Ser-Asp-Val-Ser (SEQ ID NO:69);
- f) H<sub>2</sub> N-Thr-Ser-Asp-Val-Ser (SEQ ID NO:70);

- g) H2 N-Phe-Thr-Ser-Asp-Val-Ser (SEQ ID NO:71);
- h) H<sub>2</sub> N-Thr-Phe-Thr-Scr-Asp-Val-Scr (SEQ ID NO:72);
- i) H2 N-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser (SEQ ID NO:73);
- i) H2 N-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser (SEQ ID NO:74); or
- k) H2 N-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser (SEQ ID NO:75);

Xaa<sub>41</sub> is selected from the group consisting of Lys or Arg; and wherein R<sub>5</sub> is selected from the group consisting of NH<sub>2</sub>, OH, Gly-NH<sub>2</sub>, or Gly-OH, and a peptide of:

$$H-A-E-G-T+F-T-S-D-V-S-S-Y-L-E-G-Q-A-A-K-E-F$$
  
-I-A-W-L-V-K-(G)-(R)-(G) (SEQ ID NO:76)

wherein (G), (R), and (G) are present or absent depending on the indicated chain length with at least one modification of SEQ ID NO:76 selected from the group consisting of:

- (a) substitution of a neutral amino acid, arginine, or a D form of lysine for lysine at position 26 and/or 34 and/or a neutral amino acid, lysine, or a D form of arginine for arginine at position 36;
- (b) substitution of an oxidation-resistant amino acid for tryptophan at position 31;
- (c) substitution according to at least one of:

Y for V at position 16;

K for S at position 18;

D for E at position 21;

S for G at position 22;

R for Q at position 23;

R for A at position 24; and

Q for K at position 26;

(d) a substitution comprising at least one of:

an alternative small neutral amino acid for A at position 8;

an alternative acidic amino acid or neutral amino acid for E at position 9;

an alternative neutral amino acid for G at position 10; and

an alternative acidic amino acid for D at position 15; and

(e) substitution of an alternative neutral amino acid or the D or N-acylated or alkylated form of histidine for histidine at position 7.

- 24. (Original) The method according to claim 20 or claim 21 wherein said GLP-1 or GLP-1 agonist is administered peripherally.
- 25. (Original) The method according to claim 24, wherein said GLP-1 or GLP-1 agonist is administered subcutaneously.
- 26. (Original) The method of claim 24, wherein said peripheral administration is selected form the group consisting of buccal, nasal, pulmonary, oral, intravenous, intraocular, rectal, and transdermal administration.
- 27. (Original) The method of claim 5, wherein the condition or disorder is congestive heart failure.
- 28. (Original) The method of claim 5, wherein the condition or disorder is nephrotic syndrome.
- 29. (Original) The method of claim 5, wherein the condition or disorder is pulmonary edema.
  - 30. (Original) The method of claim 5, wherein the condition or disorder is cirrhosis.
- 31. (Original) The method of claim 21, wherein the condition or disorder is pulmonary edema.
- 32. (Original) The method of claim 21, wherein the condition or disorder is systemic edema.
- 33. (Original) The method of claim 21, wherein the condition or disorder is renal failure.
- 34. (Original) A method of treating congestive heart failure in an individual comprising administrating to said individual a therapeutically effective amount of an exendin or exendin